



# Maine Learning Technology Initiative Program Description

## Professional Development

The cornerstone of MLTI remains Professional Development. Apple will provide, in conjunction with MLTI/Maine Department of Education, professional development for all teachers, principals, and tech coordinators for the 2006-2007 school year.

Principals will take part in a two-day leadership workshop, focused on the tools for integration, transformation and the evaluation of the use of technology in their own buildings.

During years two and three, Apple and MLTI will host ongoing regional teacher training opportunities throughout the State. Apple will also hold one-day technical workshops each year for the first 3 years for both school technicians as well as selected student iTeams.



## Communication and Collaboration

During the past four years, it has become increasingly clear that the ability to collaborate and commu-

nicate among teachers, students, technicians, administrators, and parents is vitally important. The next deployment of the MLTI, beginning in school year 06-07, will include an online learning management system, StudyWiz.



This environment will allow teachers and students to share resources, hand-in work, pass out assignments, send and receive electronic messages, host online chats, and even store files in your own eLocker. Every student will have 100MB of space in their eLocker while teachers will be able to store up to 500MB of information in their eLockers.

Teachers can dynamically create collaborative spaces for students, and even create chat rooms. StudyWiz will also facilitate sharing across the State connecting teachers from Fort Kent to Kittery. In addition, all users will have access to an Internet email account.

## Hardware

The iBook G4 will be the new MLTI laptop. Visually, it is very similar to the original iBook G3 laptops used over the past 4 years. However, don't let the appearance fool you, these are not the same iBooks!

Powered by a 1.33 ghz G4 chip and loaded with 1 GB of system

memory (that's 8x more memory than the previous MLTI laptop), the MLTI iBook will run Apple's newest operating system, Mac OS 10.4 Tiger. The iBook comes loaded with the same set of ports for connecting to peripheral devices. The iBook G4 will come with a 40GB hard drive, large enough to store all your school work and enough space to create and edit an iMovie complete with music from your iTunes library and photos from your iPhoto collection. There are two changes which teachers and students will appreciate. First, the built-in wireless networking capabilities have been upgraded to Airport Extreme, 801.11g. Airport Extreme



wireless networking will provide up to 5x faster connections than the previous iBooks. Second, the CD-ROM tray has been replaced by a slot-loading CDRW/DVD-ROM drive. No more trays to break. No more duct tape. Further, the new drive will not only read and burn CDs, but it will read DVD media as well.

## Network

The wireless networks installed in 2002 will be upgraded. Wireless

access points will be upgraded to Airport Extreme Base Stations (802.11g, 54Mbps), and switches will be replaced as well. Coverage areas will be expanded as necessary to include the Principal's office area, all 7th and 8th grade instructional areas, Library, and common assembly spaces.

The new network will have up to 5x more available bandwidth than the previous network for internal data transfers.

## Support

Apple's MLTI support plan will continue in similar fashion as today's program. Each school's spare inventory will be increased to 2% of the first year's deployment. Online tools like the MLTI Asset Manager, DepotWorks, and GSX will remain. Just as before, as batteries lose their ability to hold a reasonable charge, they will be replaced.

The MLTI Local Depot will provide both warranty and non-warranty repairs. All costs related to non-warranty repairs will be the responsibility of the local school.

Each school will be issued 2 administrative copies of Apple Remote Desktop to allow technicians to push software updates or make configuration changes. Apple Remote Desktop can also be used to remotely manage computers or gather reports about system configurations and software loads.

Remote management tasks can be saved and reused or scheduled so they are performed at off-peak times, or whenever iBooks are

available on the network.



The MLTI Firewire

Restore Drive solution will be

expanded to include 1 drive for every 30 iBooks deployed to the school in year 1. This should better enable schools to support larger deployments.

## Buffer Pool

The Buffer Pool will provide schools with replacement devices for accidentally damaged or sto-

len laptops. The size of the Buffer Pool has been increased from 2% to 7% of the total deployment. Each school will be assigned a specific number of devices from the pool each year based on size (1% of deployment in year 1, 2% of deployment in years 2-4). Schools may bank devices year over year.

The Buffer Pool will be housed at the MLTI Local Depot, so as replacements are needed, schools will be able to ship the broken device to the depot in exchange for a working device. As enrollments drop in years 2-4, the DOE will identify available devices at schools to be recalled to the Local Depot to ensure the Buffer Pool has adequate numbers of devices.

Software Title	Description
Mac OS 10.4 Tiger	Apple's latest operating system. Each year as available, the MLTI solution will be upgraded to utilize the latest version of the Mac OS.
Appleworks	Productivity suite that includes a word processor, spreadsheet, database, drawing, painting, and presentation. <a href="http://www.apple.com/appleworks/">http://www.apple.com/appleworks/</a>
CyberDuck	CyberDuck is an open source, fully featured FTP/SFTP client. Users may use it to upload web pages to web servers and perform other file transfer needs. <a href="http://cyberduck.ch">http://cyberduck.ch</a> . Offered to MLTI by the David Kocher, the creator of CyberDuck.
Firefox	Fast and popular open source web browser. <a href="http://www.mozilla.com/firefox/">http://www.mozilla.com/firefox/</a>
Garageband	Digital recording studio. Record and edit your own music or podcasts. <a href="http://www.apple.com/ilife/garageband/">http://www.apple.com/ilife/garageband/</a>
Google Earth	Google Earth puts a planet's worth of imagery and other geographic information right on your desktop. <a href="http://earth.google.com">http://earth.google.com</a> . Offered to MLTI by Google Inc.
GNU Image Manipulation Program	Open source image editing program. Similar to Adobe Photoshop. <a href="http://www.gimp.org/">http://www.gimp.org/</a>
Grapher	A 2D and 3D graphing calculator. Bundled with Mac OS X. <a href="http://www.apple.com/macosx/newfeatures/over200.html">http://www.apple.com/macosx/newfeatures/over200.html</a>
iMovie HD	Movie editing software. <a href="http://www.apple.com/ilife/imovie/">http://www.apple.com/ilife/imovie/</a>
iPhoto	Digital Photo management, image enhancement, and slideshows. <a href="http://www.apple.com/ilife/iphoto/">http://www.apple.com/ilife/iphoto/</a>
iTunes	Digital music management and encoding. <a href="http://www.apple.com/itunes">http://www.apple.com/itunes</a>
iWeb	Web page creation and publishing. <a href="http://www.apple.com/ilife/iweb/">http://www.apple.com/ilife/iweb/</a>
Journler	A daily journal software package. <a href="http://journler.phildow.net/">http://journler.phildow.net/</a>
Keynote	Presentation software. <a href="http://www.apple.com/iwork/keynote/">http://www.apple.com/iwork/keynote/</a>
NeoOffice	Open source productivity suite. Create, open, edit, and save Microsoft office formatted files (.doc, .xls, .ppt). <a href="http://www.neooffice.org">http://www.neooffice.org</a>
NetLogo	NetLogo is a programmable modeling environment for simulating natural and social phenomena. It is particularly well suited for modeling complex systems developing over time. <a href="http://ccl.northwestern.edu/netlogo/">http://ccl.northwestern.edu/netlogo/</a> . Offered to MLTI by Uri Wilensky, the creator of NetLogo, Director of the Center for Connected Learning and Computer-Based Modeling.
NoteShare	Multimedia Digital Notebook. Create, organize, share, publish. <a href="http://www.aquaminds.com">http://www.aquaminds.com</a>
Other	The MLTI image will also include a host of other titles including Mail, iChat, iCal, Address Book, iSync, Quicktime, etc. <a href="http://www.apple.com/macosx/">http://www.apple.com/macosx/</a>
Pages	Word Processor and Page Layout. This document was created using Pages. <a href="http://www.apple.com/iwork/pages/">http://www.apple.com/iwork/pages/</a>
PASCO DataStudio	Data analysis, graphing calculator. <a href="http://www.pasco.com/datastudio/">http://www.pasco.com/datastudio/</a>

Software Title	Description
PASCO MyWorld GIS	A Geographic Information System for Inquiry-Based Learning. Query, plot and analyze geographic data such as climate, geology, biodiversity, population and more. <a href="http://www.pasco.com/myworld/">http://www.pasco.com/myworld/</a>
Safari RSS	Web browser with RSS feed management. <a href="http://www.apple.com/safari/">http://www.apple.com/safari/</a>
SketchUp Pro	3D design software. <a href="http://www.sketchup.com">http://www.sketchup.com</a> . Offered to MLTI by Google Inc.
World Book Encyclopedia	The entire World Book Encyclopedia and more. <a href="http://www.mackiev.com/worldbook/">http://www.mackiev.com/worldbook/</a>

For schools interested in purchasing Microsoft Office for Macintosh, the Department of Education in cooperation with the Microsoft Corporation and the Association of Computer Technology Educators of Maine (<http://www.ACTEM.org>) has secured special pricing for MLTI schools. If interested, please contact Craig Dickinson, Business Manager, ACTEM, (207) 646-2918, [cdickinson@actem.org](mailto:cdickinson@actem.org).

# MLTI Implementation Roadmap

Date	New Deployment for Grades 7 and 8	MLTI Expansion at Local Cost (Public grades K-6, 9-12, and all non-public schools)
July 7, 2006	1.MLTI Grade 7 & 8 Participation Form Due 2.MLTI Grade 7 & 8 Device Order Form Due 3.MLTI Staff Roster Spreadsheet Due	1.MLTI Expansion at Local Cost Participation Due 2.Device Order Form & Payment Agreement Due
	Optional MLTI Buffer Pool Device Order Form Due	
	(Optional) Alternate Equivalent Value Form for Grade 7 & 8 Due Contact MLTI Project Office directly if you need this form	
Mid-July	School Readiness Checklists completed by schools. On-Site Surveys for Network upgrade/installs to follow. Upgrade/Installation of network will occur as soon as possible after On-Site Survey is complete.	
Mid-August to September	Device Delivery to All Schools	
August through Fall	Professional Development for Teachers, School Administrators and Technology staff	

If you have questions, please contact:

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